

Biomedical Engineers

Sharon M. Andrews

Objective	To obtain experience in the biomedical engineering field			
Experience	1998-2002	Math Lab	North Rockland High School	
	Tutor			
	<ul style="list-style-type: none">• Volunteered to help students having difficulty in mathematics			
	1999-2002	Homework Center	North Rockland High School	
	Tutor			
	<ul style="list-style-type: none">• Helped students in all academic subjects			
	2000-2002		Pomona, NY	
	Private Tutor			
	<ul style="list-style-type: none">• Privately tutored French for 4-5 hours a week			
	Summer 2003	Avon Skin Care Lab	Suffern, NY	
Education	Research & Development Intern			
	<ul style="list-style-type: none">• Formulated skin creams, lotions, face masks & cleansers• Took initial and stabilized readings of batches (i.e. pH, viscosity, specific gravity)• Examined packaging samples• Took one month stability tests on samples• Duplicated a competitive face cream and documented findings			
	1998-2002	North Rockland High School	Thiells, NY	
	<ul style="list-style-type: none">• Graduated 3rd in class• Cumulative Average: 101.5714			
	2002-2003	Rensselaer Polytechnic Institute	Troy, NY	
	<ul style="list-style-type: none">• Current GPA: 3.65/4.0• Hoping to obtain a bachelor's degree in Biomedical Engineering			
	Extracurricular Activities	1998-2002	North Rockland High School	
		<ul style="list-style-type: none">• National, English, Foreign Language, Math, Science, Social Studies Honor Societies• Tennis Team• Polyglot (Foreign Language Magazine)- Editor		

Michaeline Becker

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OBJECTIVE

A full-time summer internship in the field of Biomedical Engineering utilizing my educational foundation and previous employment skills, and furthering my knowledge of the field.

EDUCATION

Rensselaer Polytechnic Institute, Troy, NY

Bachelor of Science in Biomedical Engineering; GPA: 3.1/4.0; Dean's List

Graduation: May 2006, Expected

Computer Skills: Word, Excel, PowerPoint, Publisher, Maple, Solid Works, Introduction to C and C Shell for Unix and C/C++, Emacs

EXPERIENCE

Undergraduate Research Project, Materials Science Engineering Department, Rensselaer Polytechnic Institute, Troy, NY

Part-Time Student Employee (August 2003—Present)

- Work under the supervision of Professor Robert H. Doremus
- Create hydroxylapatite (HAP) and test properties
- Experience in using X-ray diffraction
- Make, characterize, and draw comparisons of HAP coatings

Whitaker Biomedical Image Processing Lab, Biomedical Engineering Department, Cleveland Clinic Foundation, Cleveland, OH

Part-Time Student Employee (May 2003—August 2003) **Full-Time Student**

Employee (May 2002—August 2002) **Part-Time Student Employee** (May 2001—May 2002) **High School Student Catalyst Participant** (January 2001—May 2001)

- Worked under the supervision of Elizabeth Fisher, Ph.D.
- Wrote and ran scripts to process images for 8-year follow-up study; retrieved and analyzed results using Excel
- Collected, analyzed, verified, and documented data from Magnetic Resonance Images (MRI) for the PPG Project *Monitoring Brain Atrophy During the Course of Multiple Sclerosis*
- Assisted Image Processing Lab Group with other tasks, such as brain ventricle tracing and Brain Parenchymal Fraction (BPF) calculation
- Presented laboratory work to professional audience

Diane Colello

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Job Objective:

I am seeking full-time employment in the field of Biomedical Engineering

Education:

Rensselaer Polytechnic Institute, Troy, New York
B.E. Biomedical Engineering, May 2004
Mechanical Engineering Concentration, Psychology Minor
Cumulative G.P.A. 3.1/4.0, Major G.P.A. 3.1/4.0

Flinders University, Adelaide, South Australia
Study Abroad, February – July 2003

Relevant Courses:

Introduction to Engineering Design, Engaged in a design-build-test group project concerning safety in the home
Bioengineering Laboratory, Participated in labs measuring such things as pressure and bioelectrical potentials using current technology

Professional Experience:

The Pennsylvania State University, University Park, Pennsylvania
National Nanofabrication Users Network (NNUN) funded Research Experience for Undergraduates (REU) Summer Internship, 2002
Performed lab experiments and analyzed data pertaining to DNA transport and immobilization

Equinox Fitness Club, Scarsdale, New York
Front Desk Clerk, May 2000 – Current
Employee of the Month May 2001, Employee trainer, Fielded concerns by clients and directed them to the appropriate department

Kiderfic Nursery School, Bronx, New York
Assistant Teacher, June 1996 – Current
Planning and presentation of lessons, Arts and Crafts coordinator

Achievements:

Dean's List, All semesters
Girl Scout Silver Award, May 1998
Published Research Paper, "DNA Transport and Immobilization in Hybrid Sol-Gels", Dr. Carlo Pantano, September 2002

Skills:

Image Tool 3.00, Maple 8, Matlab, Microsoft Office, Microsoft Windows Operating System, Minitab, Solidworks

Extracurricular Activities:

Biomedical Engineering Society, Treasurer, Organize lectures with guest speakers

Society of Women Engineers, Coordinate events on campus focusing on women in engineering

Women at Rensselaer Mentor Program, Provide guidance and support for freshmen and prospective high school students in acclimating to the college environment

References:

Available on request

CAMI M. JOHNSON

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OBJECTIVE	An Academic Undergraduate Research Internship for Summer 2004		
EDUCATION	University of Idaho, Moscow ID <i>Bachelor of Science, Biological Systems Engineering</i> Minor: Natural Resources GPA: 3.89/4.0 Earned 80% of college expenses Course Highlights: Honors Principles of Chemistry 1 and 2; Organic Chemistry 1; Biological Principles and Mechanisms; Principles of Biological Structure and Function; Microbiology (Fall 2003); Biochemistry (Fall 2003) Calculus 1,2, and 3; Differential Equations; Engineering Statics; Engineering Physics 1 and 2 (Fall 2003); Probability and Statistics; Engineering Graphics (AutoCAD); Engineering Analysis and Design (Visual Basic)		
STRENGTHS	Leadership Abilities Willingness to Work Hard Oral and Written Communication	Ability to Learn Quickly Well-Rounded Background	Self-motivated Team Player
COMPUTER SKILLS	Microsoft Word, PowerPoint, Excel, Access Visual Basic Programming	AutoCAD C++ Programming	HTML Web Design
PROJECTS	<i>Biodiesel Production Plant Project and Presentation</i> , Engineering Analysis and Design, (Fall 2002) ▶ Formal report on a biodiesel production plant and the production process with a class presentation <i>Alternative Transportation Fuels for the Future</i> , Honors Principles of Chemistry 2, (Spring 2002) ▶ Research paper on alternate fuels and their safety, environment impacts, and benefits. <i>Fish Ladder Design Project and Presentation</i> , Engineering for Living Systems, (Fall 2001) ▶ Designed and built a fish ladder, using acrylic, to transport fish downward two feet from an upper reservoir to a lower one. Then, the project was presented through an oral presentation explaining the design process. <i>Salmon Decline: The Impact of Dams on Salmon Survival</i> , Honors Principles of Chemistry 1, (Fall 2001) ▶ Research paper on the salmon decline in the Northwest, and the impact dams have on the fish.		
EXPERIENCE	<i>S.M. Stoller Corporation- Idaho National Engineering and Environmental Laboratory Environmental Surveillance, Education and Research Program-Summer Internship</i> S.M. Stoller Corporation Idaho Falls, ID May-August 2003 ▶ Scientific Field Technician in desert field work: carried out vegetation and wildlife surveys for several projects including vegetation recovery after a fire, monitoring vegetation on Sewage Wastewater Land Application unit, and Breeding Bird and Pygmy rabbit surveys. <i>Idaho National Engineering and Environmental Laboratory-Summer Academic Fellowship Participant</i> Bechtel BWXT Idaho, LLC Idaho Falls, ID May-August 2002 ▶ Scientific Technician in research laboratory and field work: collected deer mice around radioactive sites and performed DNA testing for direct mutation rate between mother and offspring. <i>Idaho National Engineering and Environmental Laboratory-Science Action Team Member</i> Bechtel BWXT Idaho, LLC Idaho Falls, ID June-August 2000 ▶ Compiled fact sheets regarding National Spent Nuclear Fuel Program's projects: Remote Robotic Welding/Nondestructive Examination, Spent Nuclear Fuel Database, and Design Basis Events Analysis to familiarize the public with company policies and projects.		
HONORS/ACTIVITIES	<i>(University of Idaho)</i> National Society of Women Engineers Scholarship-Electronics For Imaging (2003) National Society of Women Engineers Scholarship-Dorothy Lemke Howarth (2002) NASA Idaho Space Grant Consortium Scholarship (2002-2003) Outstanding Freshman of the Year in the Department of Biological and Agricultural Engineering (2002) Outstanding Sophomore of the Year in the Department of Biological and Agricultural Engineering (2003) Outstanding Sophomore of the Year in the College of Agricultural and Life Sciences (2003) Dean's List (2001-2003) University of Idaho Honors Program (2001-2003) University of Idaho Ambassadors-Social Committee (2003) University of Idaho Society of Women Engineers (2001-2003) Biological System Engineering Club branch of American Society of Agricultural Engineers (2003) Tau Beta Pi National Engineering Honor Society (2003) Phi Kappa Phi Honor Society (2003) Golden Key International Honour Society (2003) National Society of Collegiate Scholars (2002-2003) Phi Eta Sigma Freshman Honor Society-Chapter Secretary (2002-2003) Gault Hall Community Service Chair (2003) French Hall Community Service Chair (2002-2003) Neely Hall Secretary (2001-2002) Women in Engineering Day Volunteer (2001, 2002) Tower Treat or Treat Community Service Project (2001, 2002) Paint the Palouse Service Project (2002, 2003) Idaho 4-H Teen Conference College Staff (2002, 2003)		

References Available Upon Request

Min-Jung Kang

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Objectives

- Seeking an internship or Co-op for the spring and summer '04 terms which will help my career.

Education

- RENSSELAER POLYTECHNIC INSTITUTE (RPI) Troy, NY
- BS, Biomedical Engineering and Anticipated 2004
- Emphasis on Material Science

Computer Skills

- Programming Languages: C, C++,
- Software Packages: MS Visual C++ 6.0, Minitab, ADAM, GAITLAB, MS Office, MS Publisher, MS FrontPage, Maple V, Pro-Engineer, Logic Works, Adobe PhotoShop, MATLAB.

Experience

- Private tutoring- Teaching high school students with English, Math and Science Subjects both in Korea and U.S.A, Fall 1999- present
- Translation Job- Translating Korean news articles in English and vice versa, Summer 2001-Present
- Young-Hwa Construction Company, Seoul Korea- Secretary work, mostly translating official documents in Korean, Summer 2003

Projects

- Dynamics for BME, Spring 2002
 - Elevator Analysis: Obtaining spring constants using MATLAB.
- Biomechanics, Fall 2002
 - Joint and Muscle Analysis-Rectus Abdominus muscle tension and joint reaction at hips.
 - Gait analysis on different genders.
- Advanced Physiology, Spring 2003
 - Ion Exchange Chromatography.
 - Pig Lab: Study of nervous system.
- Introduction to Engineering Design, Summer 2003
 - Building a Golf Putting Machine- Using Regression Analysis to figure out the relationship between mass, frictions and coasting distances of the ball on different types of surfaces.
- Structure of Materials, Spring 2003
 - Study of X ray Scattering using Bragg's law and Scintage XRD.

Activity

- Officer (Secretary and Communicator) in RPI Korean Students Association, Fall 2002
- Volunteering Job: Taking care of abandoned kids in " House of Love " (Korea), Summer 1998 - Summer 2002
- Member of Society of Woman Engineering, Present
- Tennis Club, Present

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Meghan H. Kate

Objective To have temporary employment that will apply my interest and early knowledge of the bio-medical sciences in a related business setting.

Education

1998 - 2002 Trinity High School Manchester, NH
College Preparatory / Honors Curriculum
High School Honor Roll every semester since 1998; graduated within top 30% of class. Scholar Athlete Award every sports season.

2002-2006 (expected graduation) Rensselaer Polytechnic Institute Troy, NY
Chemistry I and II, Engineering Analysis, Engineering Design, Physics I and II, Calculus I and II

Summary of qualifications Strong computer software skills, including Microsoft Office Suite (word, excel, powerpoint, etc), Microsoft Image Composer, Photoshop, WEB page design, World-Wide-Web navigation, Maple, CAD (SolidWorks). Science and Math proficiency.

Work experience

2002 State of NH - DMV Concord, NH
Customer Service Representative - Title Bureau; Summer help
Managed incoming telephone inquiries from NH residents regarding automotive title concerns and maintained appropriate records of telephone transactions.

2000 - Present Gloria Jean's Coffee Manchester, NH
Shift Leader; part-time
Retail sales of specialty coffee blends and associated service products and giftware. Responsible for timely, friendly direct customer service, staff management on-shift and loss prevention. Participate in managerial decisions and store operations policy development. Received the store's first ever *Employee of the Month* Award.

2002-2003 CenSISS Troy, NY
CenSISS Scholar, undergraduate researcher
To perform with the other CenSISS students to find new and innovative ways to research and teach new aspects of the scientific fields. Current year was responsible for making an exhibit at a children's museum.

Awards and Activities

Society of Women Engineers: 2002-2004
Member of the national society, which enhances promotion of women engineers. Helped organize events and meetings.

Habitat for Humanity: 1999-2002 - officer

Student Council: 1998-2002

AIDS High School Service Group: 1998-2000 Founder
an in-school service. Hosted monthly pot-luck dinners for individuals and families living with AIDS. Received plaque on World AIDS Day, 1999

- Objective:** To obtain a full-time Biomedical Engineer position utilizing my technical and interpersonal skills.
- Education:** Rensselaer Polytechnic Institute, Troy NY
B.S. Degree in Biomedical Engineering, expected May 2004
Major Ranking: 5th in 37: GPA: 3.52
- Experience:** **Louisiana Tech University, Ruston, LA**
NSF REU Program (Research Experience Undergraduate), Summer 2003
Participated in Cartilage Tissue Engineering project directed under Dr. Mills at Louisiana Tech University as an undergraduate research student.
- Price Chopper, Troy, NY**
Cashier, Summer 2002
Responsible for cashing items
- Change Gung Memorial Hospital, Linkok, Taiwan**
Research Assistant, Summer 2001
Constructed and analyzed a set of data which contained the information of more than 500 oral cancer patients before and after their surgery directed under Dr. Liao.
- Presbyterian Intercommunity Hospital, Whittier, CA**
Volunteer, Summer 1999
Assisted patients with disabilities and delivered test specimens.
- Project:** **Physics Learning Machine, Summer 2002**
Built a practice golf ball dual rails track with different segments which included helix, hill, and incline. This was based on dynamic and static physics and it can be utilized as a Physics Learning Machine in the classroom.
- Biomechanics of Shoulder Joint, Fall 2002**
Resolved pectoralis tension and joint reaction force exercised by Cybex Chest Press
- X-Ray Diffraction, Spring 2003**
Determined certain materials based on Bragg's law and Scintage XRD
- Computer skills:** Microsoft Word, Excel, PowerPoint, Solidworks, Matlab, Maple
- Leadership & Activity:** **Vice President**, Taiwanese Students Association (elected), Present
Aquarium Club, Fall 2003
Badminton Club, Fall 2003
Chinese American Student Association, Fall 2000-Present
National Society of Women Engineering, Present
- Honors:** Dean's Scholarship, Fall 2000-Spring 2004
Dean's List, Spring 2002-Present
Honor's Roll, Fall 1999-Spring 2000
- Language:** Read and write: English and Mandarin

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OBJECTIVE:

An entry level internship/co-op position, beginning in summer 2004, in the mechanical division of biomedical engineering.

EDUCATION:

Rensselaer Polytechnic Institute, Troy, NY
Major: Biomedical Engineering
Minor: Brain and Behavior Psychology
Expected Graduation: May, 2006
Current GPA: 4.0

EXPERIENCE:

RPI, Troy, NY

Undergraduate Teaching Assistant, 08/03 – 12/03

- Assisted in one Introduction to Engineering Analysis (Statics) course.
- Answered students' questions during in-class assignments.

Perceptive Informatics, Waltham, MA

Project Assistant Intern, 06/03 – 08/03

- Complied with several FDA regulations, including Part 11.
- Trained in video tape duplication and masking using *GeniePlus*.
- Organized, and along with two other interns, completed a project involving the duplication and masking of 300 echocardiograms.
- Provided administrative support to Project Managers and Project Teams.
- Prepared, updated, and maintained project Central Files, including project tracking databases, meeting agendas and minutes, and logs of received study materials and study images.

SKILLS:

Computer Aided Design (CAD) using SolidWorks.

ACTIVITIES:

- Secretary, RPI chapter of the Newman Fellowship
- Active national member, Society of Women in Engineering
 - Attended the National Conference of Women Student Leaders (NCWSL), held by the American Association of University Women (AAUW) in June, 2003
- Active national member, Biomedical Engineering Society
- Mentor, RPI Women's Mentoring Program
- Currently enrolled in an EMT-Basic certification course

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Objective To intern in the biomedical field and contribute hard work and strong organizational skills while gaining practical knowledge of biomedical engineering applications.

Education

Rensselaer Polytechnic Institute, Troy, New York

Exp. May 2005

- BS in Biomedical Engineering
- Relevant Coursework: Calculus II, Differential Equations, Physics I and II, Chemistry of Materials I and II, Introduction to Engineering Analysis (statics), Introduction to Biomedical Engineering, Engineering Graphics and CAD (solid modeling utilizing Solidworks software), Introduction to Engineering Design, Computer Science I, Dynamic Systems for Biomedical Engineering, Thermal and Fluids Engineering I

Ocean Township High School, Oakhurst, New Jersey

Graduated 2001

Work Experience

Township of Ocean Building Department, Oakhurst, New Jersey

June 2003 – August 2003

Clerical Typist

- General office duties
- Issued permits for different building projects
- Interfaced with Township Engineers and Inspectors

Materials and Research Center—RPI, Troy, New York

September 2001 – May 2003

Technical Writer for the Civil and Environmental Engineering Department

- Proficient at Microsoft Equation Editor, Word, and Excel

Musculoskeletal Transplant Foundation, Edison, New Jersey

June 2002 – August 2002

Research and Development Intern

- OSHA Training: Hazardous Communication and Bloodborne Pathogen Standards
- Assisted lab technician with sterile hood-work (clean hood, scrub in, pass materials/tools)
- Researched and designed preliminary experiments to test penetration of dye through cortical tissue
- Processed human femurs and tibias (using a wire wheel and elevator)
- Entered/removed research tissue into database (Microsoft Access)
- Searched for Journal Articles using PubMed Library
- Completed general office and laboratory duties (i.e. prepared tools for autoclave/irradiation)

Jenkinson's Aquarium, Point Pleasant, New Jersey

October 1999 – May 2002

Docent—Part-time Volunteer, Part-time Employee

- Attended marine life and habitats training
- Performed water testing and maintained log of results
- Prepared food/vitamins for various marine life and logged consumption
- Cleaned and maintained habitats
- Provided informational tours to the public

Osteotech, Inc., Eatontown, New Jersey

June 2000 – September 2000

Intern—Research Assistant

- Scanned, identified, labeled and entered presentation slides into database
- Organized bibliography records using the National Library of Medicine
- Prepared rat cages, bibs, aprons, bags and buckets for autoclaving
- Created inventory data sheets (Microsoft Excel)
- Attended research seminars
- Designed product label

Achievements & Awards

Society of Women Engineers' Scholarship (2001), Congressional Silver Medal Award, Congressional Bronze Medal Award, Girl Scout Silver Award, Governor's Scholar on the Environment (2000)

Activities

Women at Rensselaer Mentoring Program—Mentor; Society of Women Engineers—Membership 2002 -2003, Vice President 2003-2004, National and Local Member; Biomedical Engineering Society—National and Local Member; Alpha Gamma Delta International Sorority—Active Member